


# GAIA Marshall

<https://gaiamarshall.ast.cam.ac.uk>



create new ticket

TARGET SELECTION QUEUES

inbox (75)

review for followup (3)

OBSERVATION QUEUES

classification targets (1)

+ followup targets (1)

+ all targets (2)

CLASSIFICATION & ATEL QUEUES

queued for classification (1)

queued for atel (1)

REFERENCE

classified (6)

followup complete (1)

all archived (2)

external source inbox (5347)

marshall

search by object or pi

date added to marshall


x10


1 2 3 4 5

overview photometry comments

Alert not enough data to determine a current magnitude

identity

 Gaia14adi



gaia id: 14451

object info

ra & dec:  
11:13:54.81 -23:00:43.9  
[ 168.47841 -23.01221 ]


predicted type:  
unknown

pre-disc non-detection:  
unknown

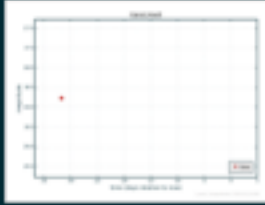
discovery date:  
33 days ago  
(2014-11-07)

date added to marshall:  
6 days ago  
(2014-12-04)

host info



lightcurve




latest magnitude:  
18.77 Gaia G-band  
2014-11-07+33d


actions

overview photometry comments

Alert not enough data to determine a current magnitude

identity

 Gaia14adj



gaia id: 14452

object info

ra & dec:  
23:46:53.17 +23:08:58.7  
[ 356.72155 23.14965 ]

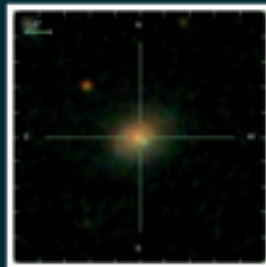
predicted type:  
unknown

pre-disc non-detection:  
unknown

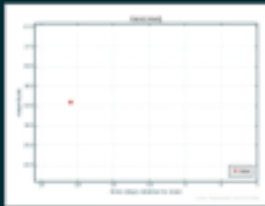
discovery date:  
22 days ago  
(2014-11-17)

date added to marshall:  
6 days ago

host info

  
[exact sdss location](#)  
[sdss nearest object](#)

lightcurve



latest magnitude:  
18.91 Gaia G-band  
2014-11-17+22d

actions

# Catalogues Cross-matched and Update Frequencies

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The following catalogues are being loaded into the GAIA Marshall with different frequencies. The GAIA Alerts are cross-matched with these catalogues to know if the transient has been already detected by other research groups.

- GAIA Alerts: Every 1 hour
- ASAS - SN: Every 3 hours
- CRTS - CV (CSS, MSL and SSS): Every 3 hours
- CRTS - SN (CSS, MSL and SSS): Every 3 hours
- LSQ
  - New discoveries: Every 30 min
  - Recalibrated: Every 1 hour
- OGLE: Every 1 hour
- Pan-STARRS: Every 3 hours
- SkyMapper: Every 3 hours
- Sources added by users: Every 3 hours
- ATelegrams: Every 1 hour

## Some Basics...

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**Inbox...** is where the alert is located and hence have that **status**, i.e. *inbox, classification targets, all archived*, etc.

**Actions...** are the different options to move the Alerts among the inboxes, .i.e. *classify, observed, followup complete*, etc.

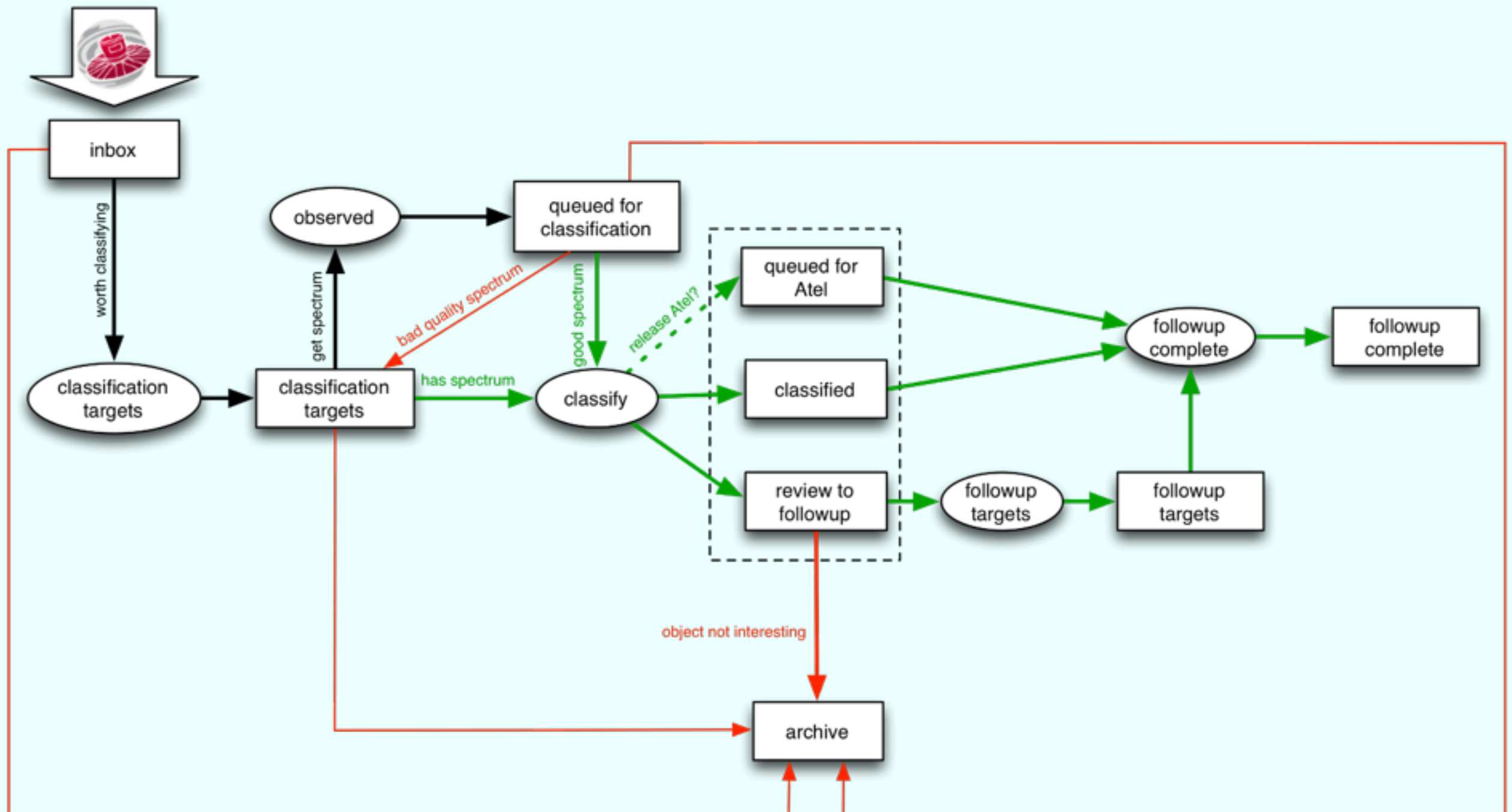
**Ticket...** is the format in which the data of an Alert is displayed in the Marshall.

The actions available will be different depending on which inbox the alert is located. For example, it can not be moved an Alert from the *inbox* to *followup complete*.

If a GAIA Alert has been detected and is in one the cross-matched catalogues the name will be displayed as “aka” in the ticket.

If a transient have ATel(s), the number(s), title(s) and link(s) to the ATel(s) will be displayed in a banner on the top of the Alert ticket.

# GAIA Marshall Data Flow



# Moving Alerts through the inboxes...

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- All the new GAIA Alerts are collected in the "Inbox".
- If you decide that a GAIA source is worth to classify, select the action "*Classification targets*" and the object will be moved from the "*Inbox*" to "*Classification targets*" inbox.
- From all inboxes you can decide that the object is not worth to investigate and send it to "All Archived".
- The sources from the other catalogues (CRTS, ASAS, OGLE, etc.) will go directly to "External Sources Inbox" (not shown in the this diagram), and are only used for cross-matching purposes.

# Classifying an Alert...

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Once the source is already in "*Classification Targets*", if there is already a good spectrum of the source, select "*Classify*" action.

- ▶ A form with several input fields will show up in your screen to fill in with the details of the object.
- ▶ Once the form is submitted, the alert will be moved to "*Classified*" and to "*Review to Followup*" inboxes.
- ▶ If in the classification form you also ticked the checkbox for Atel submission, the object will also appear in "*Queued for Atel*".
- ▶ This means that when an Alert is *classified* it will be moved to two or three distinct inboxes.

# Classifying an Alert...

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- ▶ If the source is in "*Classification Targets*" inbox and there is not an spectrum of it, select the action "*Observed*" and the source will be moved to "*Queued for Classification*". After observing the object:

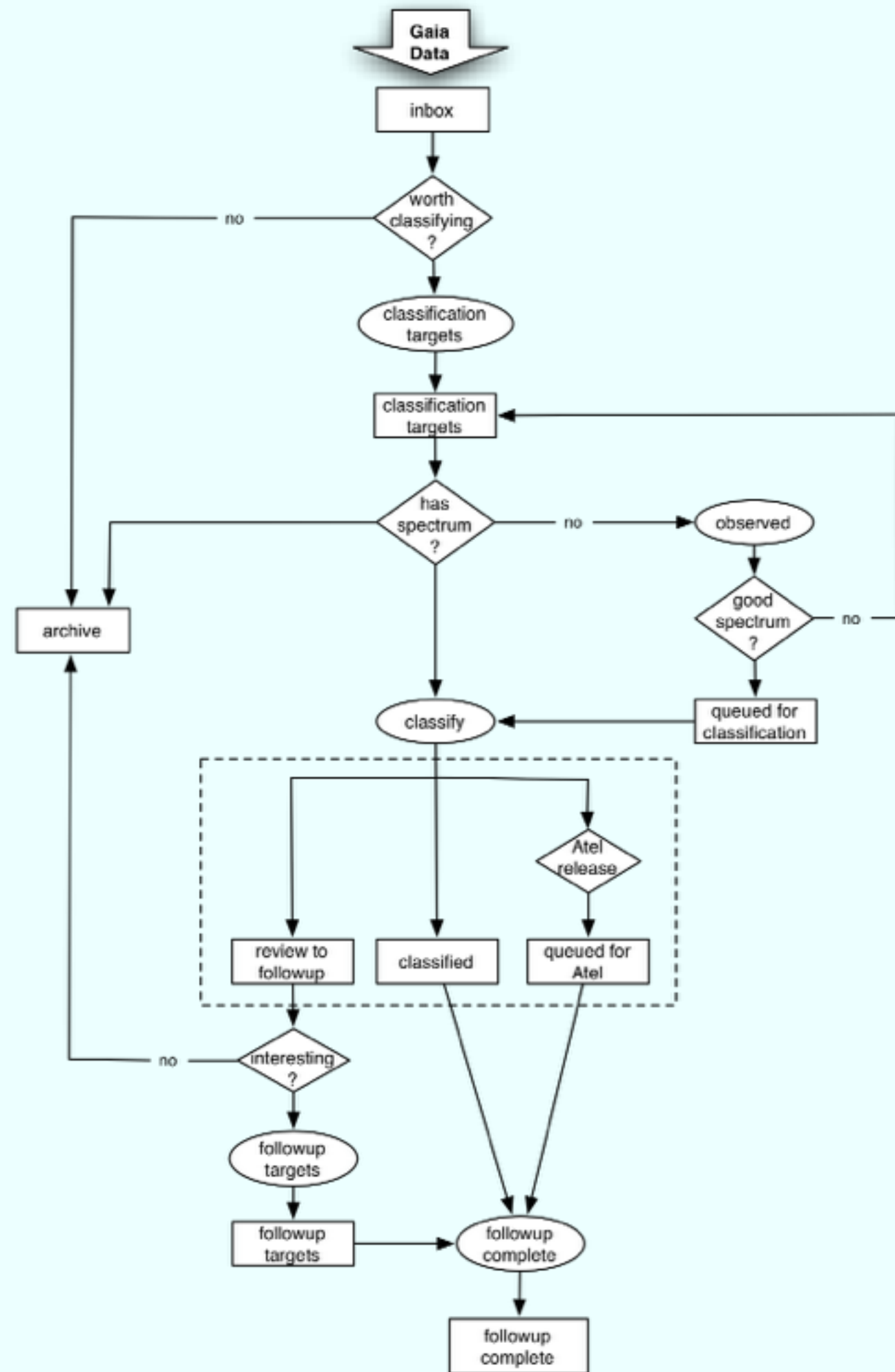
... If you get a good quality spectrum, select the action "*Classify*".

... If the spectrum quality is not good enough, you can send it back to "*Classification Targets*" inbox selecting the action "*Classification targets*".

- ▶ If the source looks very interesting you might want to take on further observations. Choose the action "*Followup Targets*" from "*Review to followup*" status, and the object will be moved to "*Followup Targets*".

# GAIA Marshall Decision Tree

Another way of  
visualising the data  
flow into the GAIA  
Marshall





# Switch to Table View

Switch to this format for visualising the Alerts information in table format. It is also possible to select the number of rows displayed.

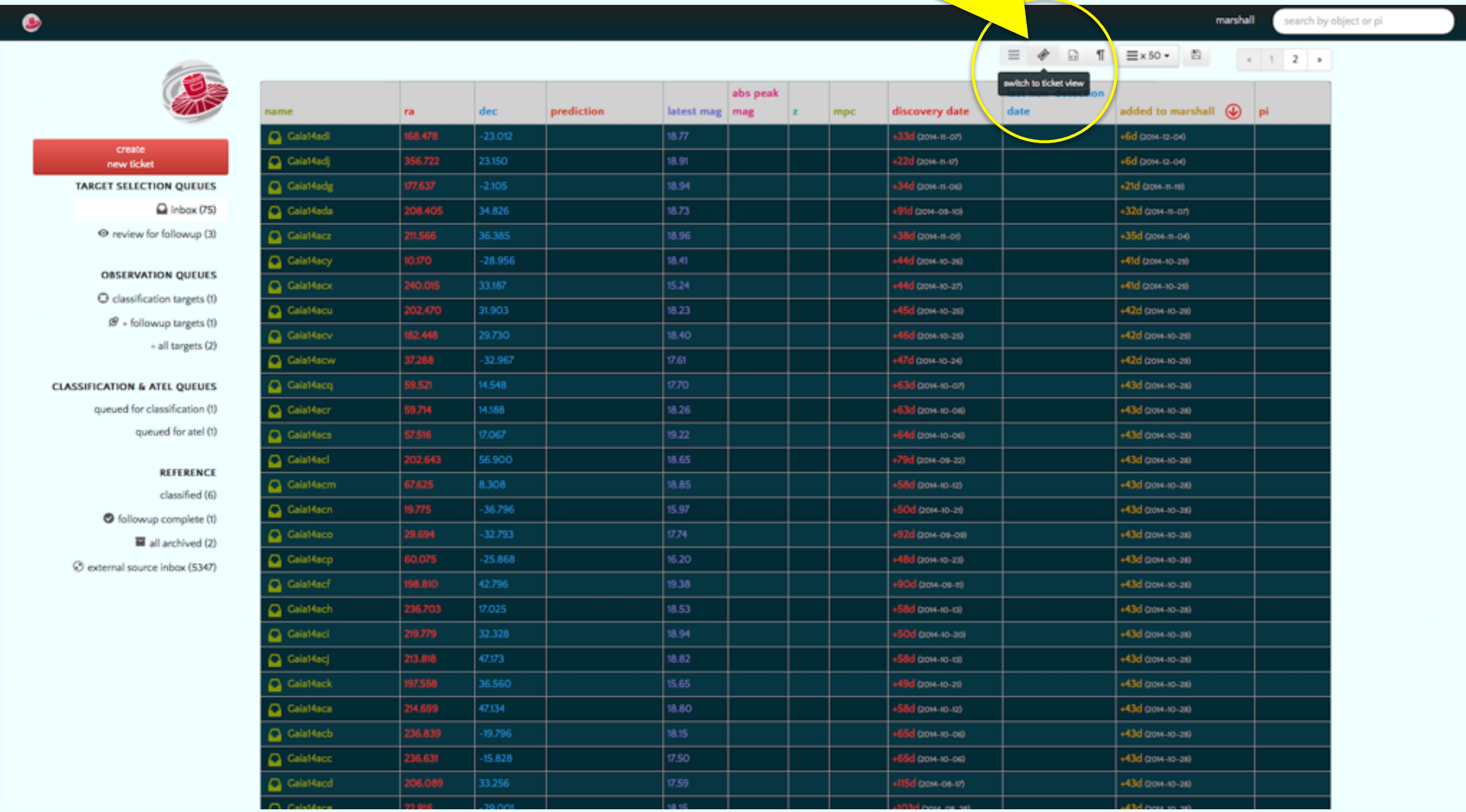
The screenshot displays the Marshall interface for viewing alert details. The top navigation bar includes a search bar and a toolbar with icons for list, table, and other views. A yellow circle highlights the 'switch to table view' button, with a large yellow arrow pointing to it. The interface shows two alert details panels, one for Gaia14adi and one for Gaia14adj. Each panel includes tabs for overview, photometry, and comments. The overview tab is active, showing a summary of the alert's identity, object information, host information, lightcurve, and actions. The Gaia14adi panel shows a 'no stamp' placeholder, while the Gaia14adj panel shows an 'exact sdss location' and 'sdss nearest object'.

**Alert not enough data to determine a current magnitude**

identity	object info	host info	lightcurve	actions
<b>Gaia14adi</b> no stamp gaia id: 14451	ra & dec: 11:13:54.81 -23:00:43.9 [ 168.47841 -23.01221 ] predicted type: unknown pre-disc non-detection: unknown discovery date: 33 days ago (2014-11-07) date added to marshall: 6 days ago (2014-12-04)	not in sdss footprint	lightcurve plot lastest magnitude: 18.77 Gaia G-band 2014-11-07+33d	list, refresh
<b>Gaia14adj</b> no stamp gaia id: 14452	ra & dec: 23:46:53.17 +23:08:58.7 [ 356.72155 23.14965 ] predicted type: unknown pre-disc non-detection: unknown discovery date: 22 days ago (2014-11-17) date added to marshall: 6 days ago	exact sdss location sdss nearest object	lightcurve plot lastest magnitude: 18.91 Gaia G-band 2014-11-17+22d	list, refresh

# Switch to Ticket View

Click on “Switch to ticket view” for visualising the contents in ticket format.



The screenshot displays the Marshall interface, which is used for managing astronomical targets. The interface is divided into a sidebar on the left and a main table area on the right.

**Sidebar:**

- create new ticket** (red button)
- TARGET SELECTION QUEUES**
  - inbox (75)
  - review for followup (3)
- OBSERVATION QUEUES**
  - classification targets (1)
  - followup targets (1)
  - all targets (2)
- CLASSIFICATION & ATEL QUEUES**
  - queued for classification (1)
  - queued for atel (1)
- REFERENCE**
  - classified (6)
  - followup complete (1)
  - all archived (2)
  - external source inbox (5347)

**Main Table:**

name	ra	dec	prediction	latest mag	abs peak mag	z	mpc	discovery date	date	added to marshall	pi
Gala14adi	168.478	-23.012		18.77				+33d (2014-11-07)		+6d (2014-12-04)	
Gala14adj	356.722	23.150		18.91				+22d (2014-11-07)		+6d (2014-12-04)	
Gala14adg	177.637	-2.105		18.94				+34d (2014-11-06)		+21d (2014-11-19)	
Gala14ada	208.405	34.826		18.73				+91d (2014-09-10)		+32d (2014-11-07)	
Gala14acz	211.566	36.385		18.96				+38d (2014-11-09)		+35d (2014-11-04)	
Gala14acy	10.170	-28.956		18.41				+44d (2014-10-28)		+41d (2014-10-29)	
Gala14acx	240.015	33.187		15.24				+44d (2014-10-27)		+41d (2014-10-29)	
Gala14acu	202.470	31.903		18.23				+45d (2014-10-26)		+42d (2014-10-29)	
Gala14acv	182.448	29.730		18.40				+46d (2014-10-25)		+42d (2014-10-29)	
Gala14acw	37.288	-32.967		17.61				+47d (2014-10-24)		+42d (2014-10-29)	
Gala14acq	59.521	14.548		17.70				+63d (2014-10-07)		+43d (2014-10-28)	
Gala14acr	59.714	14.188		18.26				+63d (2014-10-08)		+43d (2014-10-28)	
Gala14acs	57.516	17.067		19.22				+64d (2014-10-06)		+43d (2014-10-28)	
Gala14acl	202.643	56.900		18.65				+79d (2014-09-22)		+43d (2014-10-28)	
Gala14acm	67.625	8.308		18.85				+58d (2014-10-12)		+43d (2014-10-28)	
Gala14acn	19.775	-36.796		15.97				+50d (2014-10-21)		+43d (2014-10-28)	
Gala14aco	29.694	-32.793		17.74				+92d (2014-09-09)		+43d (2014-10-28)	
Gala14acp	60.075	-25.868		16.20				+48d (2014-10-23)		+43d (2014-10-28)	
Gala14acf	198.810	42.796		19.38				+90d (2014-09-10)		+43d (2014-10-28)	
Gala14ach	236.703	17.025		18.53				+58d (2014-10-13)		+43d (2014-10-28)	
Gala14aci	219.779	32.328		18.94				+50d (2014-10-20)		+43d (2014-10-28)	
Gala14acj	213.818	47.173		18.82				+58d (2014-10-13)		+43d (2014-10-28)	
Gala14ack	197.558	36.560		15.65				+49d (2014-10-21)		+43d (2014-10-28)	
Gala14aca	214.699	47.134		18.80				+58d (2014-10-12)		+43d (2014-10-28)	
Gala14acb	236.839	-19.796		18.15				+65d (2014-10-06)		+43d (2014-10-28)	
Gala14acc	236.631	-15.828		17.50				+65d (2014-10-06)		+43d (2014-10-28)	
Gala14acd	206.089	33.256		17.59				+115d (2014-08-07)		+43d (2014-10-28)	
Gala14ace	23.886	-38.001		18.15				+103d (2014-08-28)		+43d (2014-10-28)	

# Switch to CSV View

The dataset can be displayed and saved as a CSV file.

The screenshot displays the Marshall web interface. On the left is a sidebar with navigation links: 'create new ticket', 'TARGET SELECTION QUEUES' (Inbox (75), review for followup (3)), 'OBSERVATION QUEUES' (classification targets (1), + followup targets (1), = all targets (2)), 'CLASSIFICATION & ATEL QUEUES' (queued for classification (1), queued for atel (1)), and 'REFERENCE' (classified (6), followup complete (1), all archived (2), external source inbox (5347)).

The main content area shows two panels for object details. The top panel is for 'Gaia14adi' (Gaia ID: 14451) and the bottom panel is for 'Gaia14adj' (Gaia ID: 14452). Both panels have tabs for 'overview', 'photometry', and 'comments'. A yellow circle and arrow point to a 'switch to csv view' button in the top toolbar of the first panel.

**Object Details for Gaia14adi (ID: 14451):**

- Identity:** Gaia14adi, no stamp
- object info:** ra & dec: 11:13:54.81 -23:00:43.9 [168.47841 -23.01221], predicted type: unknown, pre-disc non-detection: unknown, discovery date: 33 days ago (2014-11-07), date added to marshall: 6 days ago (2014-12-04)
- host info:** not in sdss footprint
- lightcurve:** latest magnitude: 18.77 Gaia G-band (2014-11-07+33d)
- actions:** menu and refresh icons

**Object Details for Gaia14adj (ID: 14452):**

- Identity:** Gaia14adj, no stamp
- object info:** ra & dec: 23:46:53.17 +23:08:58.7 [356.72155 23.14965], predicted type: unknown, pre-disc non-detection: unknown, discovery date: 22 days ago (2014-11-17), date added to marshall: 6 days ago
- host info:** exact sdss location, sdss nearest object
- lightcurve:** latest magnitude: 18.91 Gaia G-band (2014-11-17+22d)
- actions:** menu and refresh icons



# CSV View

Comma separated CSV output.

```
name,ra,dec,ra_sex,dec_sex,spectral_class,prediction,latest_mag,abs_peak_mag,z,mpc,discovery_date,last_non-detection_date,added_to_marshall,PI
Gaia14adi,168.478,-23.012,11:13:54.81,-23:00:43.9,,unknown,18.77,,,+33d 2014-11-07,,+6d 2014-12-04,
Gaia14adj,356.722,23.150,23:46:53.17,+23:08:58.7,,unknown,18.91,,,+22d 2014-11-17,,+6d 2014-12-04,
Gaia14adg,177.637,-2.105,11:50:32.78,-02:06:17.0,,unknown,18.94,,,+34d 2014-11-06,,+21d 2014-11-19,
Gaia14ada,208.405,34.826,13:53:37.21,+34:49:34.1,,unknown,18.73,,,+91d 2014-09-10,,+32d 2014-11-07,
Gaia14acz,211.566,36.385,14:06:15.82,+36:23:04.5,,unknown,18.96,,,+38d 2014-11-01,,+35d 2014-11-04,
Gaia14acy,10.170,-28.956,00:40:40.70,-28:57:23.3,,unknown,18.41,,,+44d 2014-10-26,,+41d 2014-10-29,
Gaia14acx,240.015,33.187,16:00:03.70,+33:11:14.0,,unknown,15.24,,,+44d 2014-10-27,,+42d 2014-10-29,
Gaia14acw,37.288,-32.967,02:29:09.20,-32:58:00.2,,unknown,17.61,,,+47d 2014-10-24,,+42d 2014-10-29,
Gaia14acu,202.470,31.903,13:29:52.86,+31:54:11.0,,unknown,18.23,,,+45d 2014-10-25,,+42d 2014-10-29,
Gaia14acv,182.448,29.730,12:09:47.43,+29:43:48.8,,unknown,18.40,,,+46d 2014-10-25,,+42d 2014-10-29,
Gaia14acq,59.521,14.548,03:58:04.96,+14:32:52.4,,unknown,17.70,,,+63d 2014-10-07,,+43d 2014-10-28,
Gaia14acr,59.714,14.188,03:58:51.38,+14:11:15.2,,unknown,18.26,,,+63d 2014-10-08,,+43d 2014-10-28,
Gaia14acs,57.516,17.067,03:50:03.83,+17:04:01.1,,unknown,19.22,,,+64d 2014-10-06,,+43d 2014-10-28,
Gaia14acl,202.643,56.900,13:30:34.38,+56:53:58.3,,unknown,18.65,,,+79d 2014-09-22,,+43d 2014-10-28,
Gaia14acm,67.625,8.308,04:30:30.03,+08:18:28.8,,unknown,18.85,,,+58d 2014-10-12,,+43d 2014-10-28,
Gaia14acn,19.775,-36.796,01:19:06.03,-36:47:45.4,,unknown,15.97,,,+50d 2014-10-21,,+43d 2014-10-28,
Gaia14aco,29.694,-32.793,01:58:46.56,-32:47:34.4,,unknown,17.74,,,+92d 2014-09-09,,+43d 2014-10-28,
Gaia14acp,60.075,-25.868,04:00:18.12,-25:52:06.4,,unknown,16.20,,,+48d 2014-10-23,,+43d 2014-10-28,
Gaia14acf,198.810,42.796,13:15:14.39,+42:47:44.4,,unknown,19.38,,,+90d 2014-09-11,,+43d 2014-10-28,
Gaia14ach,236.703,17.025,15:46:48.60,+17:01:31.6,,unknown,18.53,,,+58d 2014-10-13,,+43d 2014-10-28,
Gaia14aci,219.779,32.328,14:39:06.97,+32:19:39.3,,unknown,18.94,,,+50d 2014-10-20,,+43d 2014-10-28,
Gaia14acj,213.818,47.173,14:15:16.21,+47:10:23.9,,unknown,18.82,,,+58d 2014-10-13,,+43d 2014-10-28,
Gaia14ack,197.558,36.560,13:10:13.95,+36:33:36.9,,unknown,15.65,,,+49d 2014-10-21,,+43d 2014-10-28,
Gaia14ace,22.916,-29.001,01:31:39.88,-29:00:05.1,,unknown,18.15,,,+103d 2014-08-28,,+43d 2014-10-28,
Gaia14aca,214.699,47.134,14:18:47.81,+47:08:03.3,,unknown,18.80,,,+58d 2014-10-12,,+43d 2014-10-28,
Gaia14acb,236.839,-19.796,15:47:21.34,-19:47:43.8,,unknown,18.15,,,+65d 2014-10-06,,+43d 2014-10-28,
Gaia14acc,236.631,-15.828,15:46:31.41,-15:49:42.4,,unknown,17.50,,,+65d 2014-10-06,,+43d 2014-10-28,
Gaia14acd,206.089,33.256,13:44:21.46,+33:15:22.8,,unknown,17.59,,,+115d 2014-08-17,,+43d 2014-10-28,
Gaia14abr,59.380,-9.660,03:57:31.23,-09:39:35.9,,unknown,19.39,,,+67d 2014-10-03,,+43d 2014-10-28,
Gaia14abs,161.948,-18.473,10:47:47.60,-18:28:23.5,,unknown,16.54,,,+134d 2014-07-29,,+43d 2014-10-28,
Gaia14abt,26.205,-26.517,01:44:49.14,-26:31:00.6,,unknown,19.20,,,+97d 2014-09-03,,+43d 2014-10-28,
Gaia14abu,27.405,-25.553,01:49:37.26,-25:33:12.0,,unknown,18.96,,,+97d 2014-09-04,,+43d 2014-10-28,
Gaia14abv,55.519,-22.173,03:42:04.65,-22:10:21.7,,unknown,17.90,,,+63d 2014-10-08,,+43d 2014-10-28,
Gaia14abx,189.282,-13.069,12:37:07.63,-13:04:08.7,,unknown,17.66,,,+110d 2014-08-22,,+43d 2014-10-28,
Gaia14abh,201.410,39.558,13:25:38.35,+39:33:28.9,,unknown,19.50,,,+91d 2014-09-10,,+43d 2014-10-28,
Gaia14abl,207.720,36.161,13:50:52.70,+36:09:38.5,,unknown,19.64,,,+91d 2014-09-10,,+43d 2014-10-28,
Gaia14abm,195.902,47.811,13:03:36.46,+47:48:40.7,,unknown,18.77,,,+85d 2014-09-16,,+43d 2014-10-28,
Gaia14abn,192.443,52.232,12:49:46.43,+52:13:56.6,,unknown,19.61,,,+81d 2014-09-20,,+43d 2014-10-28,
Gaia14abo,221.310,53.733,14:45:14.31,+53:43:59.1,,unknown,18.81,,,+61d 2014-10-09,,+43d 2014-10-28,
Gaia14abq,58.590,-11.320,03:54:21.63,-11:19:11.9,,unknown,16.21,,,+66d 2014-10-05,,+43d 2014-10-28,
Gaia14abj,204.110,39.152,13:36:26.28,+39:09:07.1,,unknown,19.59,,,+90d 2014-09-10,,+43d 2014-10-28,
Gaia14abd,228.953,36.932,15:15:48.64,+36:55:54.6,,unknown,18.81,,,+61d 2014-10-10,,+43d 2014-10-28,
Gaia14abe,221.408,49.542,14:45:38.03,+49:32:31.6,,unknown,19.98,,,+61d 2014-10-10,,+43d 2014-10-28,
Gaia14abf,202.898,43.495,13:31:35.57,+43:29:42.0,,unknown,18.77,,,+87d 2014-09-13,,+43d 2014-10-28,
Gaia14abg,262.699,50.004,17:30:47.87,+50:00:16.0,,unknown,17.78,,,+69d 2014-10-02,,+43d 2014-10-28,
Gaia14abh,34.148,55.722,02:16:35.63,+55:43:18.3,,unknown,18.83,,,+68d 2014-10-03,,+43d 2014-10-28,
Gaia14abi,201.360,34.294,13:25:26.48,+34:17:39.2,,unknown,18.87,,,+99d 2014-09-02,,+43d 2014-10-28,
Gaia14aau,237.945,16.626,15:51:46.78,+16:37:34.9,,unknown,17.88,,,+65d 2014-10-06,,+43d 2014-10-28,
Gaia14aav,236.640,19.531,15:46:33.68,+19:31:52.1,,unknown,16.06,,,+64d 2014-10-07,,+43d 2014-10-28,
Gaia14aaw,237.072,13.191,15:48:17.23,+13:11:29.1,,unknown,18.73,,,+62d 2014-10-09,,+43d 2014-10-28,
Gaia14aax,239.053,2.679,15:56:12.75,+02:40:45.6,,unknown,18.38,,,+62d 2014-10-09,,+43d 2014-10-28,
Gaia14aay,230.956,35.823,15:23:49.55,+35:49:24.3,,unknown,18.70,,,+62d 2014-10-09,,+43d 2014-10-28,
Gaia14aaz,233.652,25.053,15:34:36.44,+25:03:10.0,,unknown,17.75,,,+61d 2014-10-09,,+43d 2014-10-28,
Gaia14aba,223.485,50.459,14:53:56.48,+50:27:32.3,,unknown,18.88,,,+61d 2014-10-09,,+43d 2014-10-28,
Gaia14abc,223.773,48.203,14:55:05.61,+48:12:10.4,,unknown,18.85,,,+61d 2014-10-10,,+43d 2014-10-28,
Gaia14aat,52.769,17.428,03:31:04.44,+17:25:40.2,,unknown,15.66,,,+69d 2014-10-02,,+43d 2014-10-28,
Gaia14aaq,168.981,49.388,11:15:55.33,+49:23:15.9,,unknown,18.43,,,+79d 2014-09-22,,+43d 2014-10-28,
Gaia14aar,239.088,-0.106,15:56:21.05,-00:06:20.9,,unknown,16.27,,,+70d 2014-10-01,,+43d 2014-10-28,
Gaia14aas,239.643,2.902,15:58:34.25,+02:54:08.4,,unknown,18.81,,,+69d 2014-10-02,,+43d 2014-10-28,
Gaia14aal,212.392,43.320,14:09:34.12,+43:19:13.7,,unknown,19.28,,,+85d 2014-09-15,,+43d 2014-10-28,
Gaia14aam,181.398,49.473,12:05:35.59,+49:28:21.6,,unknown,19.21,,,+83d 2014-09-18,,+43d 2014-10-28,
Gaia14aan,220.170,49.159,14:40:40.81,+49:09:31.1,,unknown,15.75,,,+82d 2014-09-19,,+43d 2014-10-28,
Gaia14aao,180.249,51.162,12:00:59.76,+51:09:41.4,,unknown,19.56,,,+81d 2014-09-20,,+43d 2014-10-28,
Gaia14aap,176.439,50.692,11:45:45.42,+50:41:30.4,,unknown,18.84,,,+80d 2014-09-21,,+43d 2014-10-28,
Gaia14aas,242.892,63.142,16:11:33.97,+63:08:31.8,,unknown,16.04,,,+121d 2014-08-11,,+43d 2014-10-28,
Gaia14aaf,244.254,62.007,16:17:00.91,+62:00:24.6,,unknown,17.05,,,+114d 2014-08-17,,+43d 2014-10-28,
Gaia14aag,219.143,44.653,14:36:34.40,+44:39:09.3,,unknown,17.75,,,+110d 2014-08-22,,+43d 2014-10-28,
Gaia14aah,210.453,54.513,14:01:48.80,+54:30:47.8,,unknown,18.00,,,+105d 2014-08-26,,+43d 2014-10-28,
Gaia14aa,23.883,-20.408,01:35:32.01,-20:24:28.6,,unknown,19.18,,,+102d 2014-08-30,,+43d 2014-10-28,
Gaia14aaa,187.702,46.970,13:30:48.50,+46:58:11.3,,unknown,18.98,,,+80d 2014-08-12,,+43d 2014-10-28,
```

# Switch to Plain Text View

It is also possible to visualise the Alerts data in Plain text format.

The screenshot displays the Marshall web interface. On the left is a sidebar with navigation links: 'create new ticket', 'TARGET SELECTION QUEUES' (inbox (75), review for followup (3)), 'OBSERVATION QUEUES' (classification targets (1), followup targets (1), all targets (2)), 'CLASSIFICATION & ATEL QUEUES' (queued for classification (1), queued for atel (1)), 'REFERENCE' (classified (6), followup complete (1), all archived (2)), and 'external source inbox (5347)'. The main content area shows two alert cards. The top card is for 'Gaia14adi' (Gaia ID: 14451) and the bottom card is for 'Gaia14adj' (Gaia ID: 14452). Both cards have tabs for 'overview', 'photometry', and 'comments'. A yellow circle highlights a button labeled 'switch to plain text view' in the top right of the first card's overview tab, with a large yellow arrow pointing to it. Each card displays object information (ra & dec, predicted type, pre-disc non-detection, discovery date, date added to marshall), a host info image, a lightcurve plot, and a list of actions. A blue banner at the top of each card reads 'Alert not enough data to determine a current magnitude'.

marshall search by object or pi

switch to plain text view

Alert not enough data to determine a current magnitude

identity object info host info lightcurve actions

Gaia14adi

no stamp

ra & dec: 11:13:54.81 -23:00:43.9 [ 168.47841 -23.01221 ]

predicted type: unknown

pre-disc non-detection: unknown

discovery date: 33 days ago (2014-11-07)

date added to marshall: 6 days ago (2014-12-04)

gaia id: 14451

not in sdss footprint

lightcurve

lastest magnitude: 18.77 Gaia G-band 2014-11-07+33d

actions

overview photometry comments

Alert not enough data to determine a current magnitude

identity object info host info lightcurve actions

Gaia14adj

no stamp

ra & dec: 23:46:53.17 +23:08:58.7 [ 356.72155 23.14965 ]

predicted type: unknown

pre-disc non-detection: unknown

discovery date: 22 days ago (2014-11-17)

date added to marshall: 6 days ago

gaia id: 14452

exact sdss location  
sdss nearest object

lightcurve

lastest magnitude: 18.91 Gaia G-band 2014-11-17+22d

actions



# Plain Text View

An example of how the data will be presented in plain text.

name to marshall	PI	ra		dec		ra (sex)	dec (sex)	spectral class	prediction	latest mag	abs peak mag	z	mpc	discovery date	last non-detection date	added
		ra	dec	ra (sex)	dec (sex)											
Gaia14adi		168.478	-23.012	11:13:54.81	-23:00:43.9				unknown	18.77				+33d 2014-11-07		+6d
2014-12-04																
Gaia14adj		356.722	23.150	23:46:53.17	+23:08:58.7				unknown	18.91				+22d 2014-11-17		+6d
2014-12-04																
Gaia14adg		177.637	-2.105	11:50:32.78	-02:06:17.0				unknown	18.94				+34d 2014-11-06		+21d
2014-11-19																
Gaia14ada		208.405	34.826	13:53:37.21	+34:49:34.1				unknown	18.73				+91d 2014-09-10		+32d
2014-11-07																
Gaia14acx		211.566	36.385	14:06:15.82	+36:23:04.5				unknown	18.96				+38d 2014-11-01		+35d
2014-11-04																
Gaia14acy		10.170	-28.956	00:40:40.70	-28:57:23.3				unknown	18.41				+44d 2014-10-26		+41d
2014-10-29																
Gaia14acx		240.015	33.187	16:00:03.70	+33:11:14.0				unknown	15.24				+44d 2014-10-27		+42d
2014-10-29																
Gaia14acu		202.470	31.903	13:29:52.86	+31:54:11.0				unknown	18.23				+45d 2014-10-25		+42d
2014-10-29																
Gaia14acv		182.448	29.730	12:09:47.43	+29:43:48.8				unknown	18.40				+46d 2014-10-25		+42d
2014-10-29																
Gaia14acw		37.288	-32.967	02:29:09.20	-32:58:00.2				unknown	17.61				+47d 2014-10-24		+42d
2014-10-29																
Gaia14aca		57.516	17.067	03:50:03.83	+17:04:01.1				unknown	19.22				+64d 2014-10-06		+43d
2014-10-28																
Gaia14acq		59.521	14.548	03:58:04.96	+14:32:52.4				unknown	17.70				+63d 2014-10-07		+43d
2014-10-28																
Gaia14acr		59.714	14.188	03:58:51.38	+14:11:15.2				unknown	18.26				+63d 2014-10-08		+43d
2014-10-28																
Gaia14acl		202.643	56.900	13:30:34.38	+56:53:58.3				unknown	18.65				+79d 2014-09-22		+43d
2014-10-28																
Gaia14acm		67.625	8.308	04:30:30.03	+08:18:28.8				unknown	18.85				+58d 2014-10-12		+43d
2014-10-28																
Gaia14acn		19.775	-36.796	01:19:06.03	-36:47:45.4				unknown	15.97				+50d 2014-10-21		+43d
2014-10-28																
Gaia14aco		29.694	-32.793	01:58:46.56	-32:47:34.4				unknown	17.74				+92d 2014-09-09		+43d
2014-10-28																
Gaia14acp		60.075	-25.868	04:00:18.12	-25:52:06.4				unknown	16.20				+48d 2014-10-23		+43d
2014-10-28																
Gaia14acf		198.810	42.796	13:15:14.39	+42:47:44.4				unknown	19.38				+90d 2014-09-11		+43d
2014-10-28																
Gaia14ach		236.703	17.025	15:46:48.60	+17:01:31.6				unknown	18.53				+58d 2014-10-13		+43d
2014-10-28																
Gaia14aci		219.779	32.328	14:39:06.97	+32:19:39.3				unknown	18.94				+50d 2014-10-20		+43d
2014-10-28																
Gaia14acj		213.818	47.173	14:15:16.21	+47:10:23.9				unknown	18.82				+58d 2014-10-13		+43d
2014-10-28																
Gaia14ack		197.558	36.560	13:10:13.95	+36:33:36.9				unknown	15.65				+49d 2014-10-21		+43d
2014-10-28																
Gaia14acb		236.839	-19.796	15:47:21.34	-19:47:43.8				unknown	18.15				+65d 2014-10-06		+43d
2014-10-28																
Gaia14acc		236.631	-15.828	15:46:31.41	-15:49:42.4				unknown	17.50				+65d 2014-10-06		+43d
2014-10-28																
Gaia14acd		206.089	33.256	13:44:21.46	+33:15:22.8				unknown	17.59				+115d 2014-08-17		+43d
2014-10-28																
Gaia14ace		22.916	-29.001	01:31:39.88	-29:00:05.1				unknown	18.15				+103d 2014-08-28		+43d
2014-10-28																
Gaia14aca		214.699	47.134	14:18:47.81	+47:08:03.3				unknown	18.80				+58d 2014-10-12		+43d
2014-10-28																
Gaia14abr		59.380	-9.660	03:57:31.23	-09:39:35.9				unknown	19.39				+67d 2014-10-03		+43d
2014-10-28																
Gaia14aba		161.948	-18.473	10:47:47.60	-18:28:23.5				unknown	16.54				+134d 2014-07-29		+43d
2014-10-28																
Gaia14abt		26.205	-26.517	01:44:49.14	-26:31:00.6				unknown	19.20				+97d 2014-09-03		+43d
2014-10-28																
Gaia14abu		27.405	-25.553	01:49:37.26	-25:33:12.0				unknown	18.96				+97d 2014-09-04		+43d
2014-10-28																
Gaia14abv		55.519	-22.173	03:42:04.65	-22:10:21.7				unknown	17.90				+63d 2014-10-08		+43d

# Sorting by parameters

The displayed Alerts (or the result set of a search) can be ordered by a parameter that can be selected from a drop-down menu.

The screenshot displays the Marshall interface with two alert details. A yellow circle highlights the 'date added to marshall' dropdown menu, which lists the following parameters for sorting:

- absolute peak magnitude
- current magnitude
- dec
- discovery date
- latest comment date
- name
- pre-discovery non-detection date
- predicted type
- ra
- redshift

The interface also shows a sidebar with navigation options and a top search bar.

**Alert 1: Gaia14adi**

- Identity: Gaia14adi
- object info: ra & dec: 11:13:54.81 -23:00:43.9 [ 168.47841 -23.01221 ]
- predicted type: unknown
- pre-disc non-detection: unknown
- discovery date: 33 days ago (2014-11-07)
- date added to marshall: 6 days ago (2014-12-04)
- gaia id: 14451
- lightcurve: latest magnitude: 18.77 Gaia G-band 2014-11-07+33d

**Alert 2: Gaia14adj**

- Identity: Gaia14adj
- object info: ra & dec: 23:46:53.17 +23:08:58.7 [ 356.72155 23.14965 ]
- predicted type: unknown
- pre-disc non-detection: unknown
- discovery date: 22 days ago (2014-11-17)
- date added to marshall: 6 days ago
- gaia id: 14452
- lightcurve: latest magnitude: 18.91 Gaia G-band 2014-11-17+22d

# Paging

The number of objects displayed per page can be selected from a drop-down menu.

The screenshot displays the Marshall web interface. On the left, there is a sidebar with navigation links: 'create new ticket', 'TARGET SELECTION QUEUES' (Inbox (75), review for followup (3)), 'OBSERVATION QUEUES' (classification targets (1), + followup targets (1), = all targets (2)), 'CLASSIFICATION & ATEL QUEUES' (queued for classification (1), queued for atel (1)), and 'REFERENCE' (classified (6), followup complete (1), all archived (2), external source inbox (5347)).

The main content area shows two object profiles. The top profile is for 'Gaia14adi' (gaia id: 14451). It includes tabs for 'overview', 'photometry', and 'comments'. A blue alert banner at the top of the profile states 'Alert not enough data to determine a current magnitude'. The profile is divided into five columns: 'identity' (with a 'no stamp' placeholder), 'object info' (ra & dec: 11:13:54.81 -23:00:43.9 [168.47841 -23.01221], predicted type: unknown, pre-disc non-detection: unknown, discovery date: 33 days ago (2014-11-07), date added to marshall: 6 days ago (2014-12-04)), 'host info' (not in sdss footprint), 'lightcurve' (a plot showing magnitude vs. time), and 'actions' (with a list icon and a refresh icon). A yellow circle highlights a dropdown menu in the top right of the profile, which is set to 'x 10'. The dropdown menu options are 'x 25', 'x 50', and 'x 100'. A yellow arrow points to the dropdown menu.

The bottom profile is for 'Gaia14adj' (gaia id: 14452). It has the same layout as the top profile. The 'object info' column shows ra & dec: 23:46:53.17 +23:08:58.7 [356.72155 23.14965], predicted type: unknown, pre-disc non-detection: unknown, discovery date: 22 days ago (2014-11-17), and date added to marshall: 6 days ago. The 'host info' column shows 'exact sdss location' and 'sdss nearest object'. The 'lightcurve' column shows a plot with a red dot. The 'actions' column shows a list icon and a refresh icon.



# Download options

The Marshall provides the functionality of downloading a text version of the current view.

The screenshot displays the Marshall web interface, which is used for managing astronomical observations. The interface is divided into a left sidebar and a main content area. The sidebar contains several sections: 'create new ticket', 'TARGET SELECTION QUEUES' (with 'Inbox (75)' and 'review for followup (3)'), 'OBSERVATION QUEUES' (with 'classification targets (1)', '+ followup targets (1)', and '= all targets (2)'), 'CLASSIFICATION & ATEL QUEUES' (with 'queued for classification (1)' and 'queued for atel (1)'), and 'REFERENCE' (with 'classified (6)', 'followup complete (1)', 'all archived (2)', and 'external source inbox (5347)').

The main content area shows two object detail views, one for 'Gaia14adi' (top) and one for 'Gaia14adj' (bottom). Each view has tabs for 'overview', 'photometry', and 'comments'. A blue alert banner at the top of each view states: 'Alert not enough data to determine a current magnitude'. The 'overview' tab is selected, showing various data fields:

- Identity:** Gaia14adi (top) and Gaia14adj (bottom). Each has a 'no stamp' placeholder image and a 'gaia id' (14451 for top, 14452 for bottom).
- object info:** Includes 'ra & dec', 'predicted type: unknown', 'pre-disc non-detection: unknown', 'discovery date' (33 days ago for top, 22 days ago for bottom), and 'date added to marshall' (6 days ago for both).
- host info:** The top view shows 'not in sdss footprint', while the bottom view shows 'exact sdss location' and 'sdss nearest object'.
- lightcurve:** Both views show a lightcurve plot and a 'latest magnitude' (18.77 for top, 18.91 for bottom) in the 'Gaia G-band'.
- actions:** Each view has a menu icon and a refresh icon.

A yellow circle and arrow highlight a button in the top right toolbar that says 'download a plain text version of the current marshall view'.

# Exploding Web Service Tools

In every Alert ticket, there are two buttons to allow exploring several web services tools. One of the buttons allows you to select the service you want to open. The other one will open all the services in browser tags.

The screenshot shows the Marshall Alert interface. On the left is a sidebar with navigation links: 'create new ticket', 'TARGET SELECTION QUEUES' (inbox (74), review for followup (3)), 'OBSERVATION QUEUES' (classification targets (1), + followup targets (1), all targets (2)), 'CLASSIFICATION & ATEL QUEUES' (queued for classification (1), queued for atel (1)), 'REFERENCE' (classified (7), followup complete (2), all archived (2)), and 'external source inbox (5347)'. The main panel shows an alert for 'Gaia14ade' with tabs for 'overview', 'photometry', and 'comments'. A message at the top says 'Alert not enough data to determine a current magnitude'. Below this is a 'latest comment' from 5 hours ago. The main content is divided into sections: 'identity' (Gaia14ade), 'object info' (ra & dec: 23-50:52.01 +28-58:59.4, predicted type: unknown, pre-disc non-detection: unknown, discovery date: 30 days ago, date added to marshall: 22 days ago), 'spectral classification' (classification: CV, classification survey: gaia, classification date: 2014-12-11, classification phase: unknown), 'host info' (a small image of the object), and 'lightcurve' (a plot showing the light curve). A yellow circle highlights a dropdown menu with options: 'ned', 'ads papers', 'simbad', 'extinction', 'sdss - exact location', and 'vizier'. A yellow arrow points from this menu to a legend box at the bottom right.

Legend:

- Allows you to select among a list of web service tools
- Explode all web service tools listed

# Alerts tickets

Alert tickets have an *action button* and, depending on the inbox, a *classify* button. Clicking on the “actions” button will display other possible actions in this inbox. These buttons can be found in the tag “overview” of the ticket.

The screenshot displays the Marshall alert ticket interface. The top navigation bar includes a search bar and a user profile. The left sidebar contains navigation links for creating new tickets, target selection queues, observation queues, classification & ATEL queues, and reference. The main content area shows two tickets, Gaia14adi and Gaia14adj, each with an 'overview' tab selected. The 'actions' tab is also visible, showing a list of actions. A yellow arrow points to the 'actions' button in the 'actions' tab of the first ticket, and another yellow arrow points to the 'classify' button in the 'actions' tab of the second ticket.

**create new ticket**

**TARGET SELECTION QUEUES**

- inbox (75)
- review for followup (3)

**OBSERVATION QUEUES**

- classification targets (1)
- + followup targets (1)
- = all targets (2)

**CLASSIFICATION & ATEL QUEUES**

- queued for classification (1)
- queued for atel (1)

**REFERENCE**

- classified (6)
- followup complete (1)
- all archived (2)
- external source inbox (5347)

**Alert not enough data to determine a current magnitude**

**identity**

Gaia14adi

no stamp

gaia id: 14451

**object info**

ra & dec:  
11:13:54.81 -23:00:43.9  
[ 168.47841 -23.01221 ]

predicted type:  
unknown

pre-disc non-detection:  
unknown

discovery date:  
33 days ago  
(2014-11-07)

date added to marshall:  
6 days ago  
(2014-12-04)

**host info**

not in s

**lightcurve**

lastest magnitude:  
18.77 Gaia G-band  
2014-11-07+33d

**actions**

“actions” button

“classify” button

**identity**

Gaia14adj

no stamp

gaia id: 14452

**object info**

ra & dec:  
23:46:53.17 +23:08:58.7  
[ 356.72155 23.14965 ]

predicted type:  
unknown

pre-disc non-detection:  
unknown

discovery date:  
22 days ago  
(2014-11-17)

date added to marshall:  
6 days ago

**host info**

exact sdss location  
sdss nearest object

**lightcurve**

lastest magnitude:  
18.91 Gaia G-band  
2014-11-17+22d

# Photometry

Light curves and magnitudes information are displayed in the “photometry” tag.

The screenshot displays the Marshall web interface. On the left is a sidebar with navigation links: 'create new ticket', 'TARGET SELECTION QUEUES' (Inbox (75), review for followup (3)), 'OBSERVATION QUEUES' (classification targets (1), + followup targets (1), = all targets (2)), 'CLASSIFICATION & ATEL QUEUES' (queued for classification (1), queued for atel (1)), 'REFERENCE' (classified (6), followup complete (1), all archived (2)), and 'external source inbox (5347)'. The top navigation bar includes the user 'marshall', a search bar, and a toolbar with icons for menu, print, zoom, and a date filter set to 'date added to marshall'. The main content area has tabs for 'overview', 'photometry', and 'comments'. The 'photometry' tab is active, showing a 'master lightcurve' plot for 'Gaia14adi'. The plot shows a single data point at approximately magnitude 18.77 and time -32 days. To the right of the plot, the 'latest magnitudes' section shows '18.77 Gaia G-band' with a timestamp of '2014-11-07+33d'. Below the plot is a table with columns for 'identity', 'object info', 'host info', 'lightcurve', and 'actions'. The 'identity' column shows 'Gaia14adj' with a thumbnail. The 'object info' column shows 'ra & dec: 23:46:53.17 +23:08:58.7 [ 356.72155 23.14965 ]', 'predicted type: unknown', and 'pre-disc non-detection:'. The 'host info' column shows a thumbnail of the object. The 'lightcurve' column shows a small plot. The 'actions' column has icons for 'add' and 'refresh'. An alert banner at the top of the table states 'Alert not enough data to determine a current magnitude'.

marshall search by object or pi

create new ticket

TARGET SELECTION QUEUES

- Inbox (75)
- review for followup (3)

OBSERVATION QUEUES

- classification targets (1)
- + followup targets (1)
- = all targets (2)

CLASSIFICATION & ATEL QUEUES

- queued for classification (1)
- queued for atel (1)

REFERENCE

- classified (6)
- followup complete (1)
- all archived (2)

external source inbox (5347)

overview photometry comments

master lightcurve

Gaia14adi

latest magnitudes

latest magnitude: 18.77 Gaia G-band 2014-11-07+33d

survey lightcurves

identity object info host info lightcurve actions

Gaia14adj

ra & dec: 23:46:53.17 +23:08:58.7 [ 356.72155 23.14965 ]

predicted type: unknown

pre-disc non-detection:

Alert not enough data to determine a current magnitude

# Adding Comments

For adding your comments: type your name, comment and press “add”.

The screenshot displays the Marshall system interface for the object Gaia14adj. The 'comments' tab is selected, and the 'add a new comment' form is visible. The form includes an 'author' field, a text area for the comment, and an 'add' button. Three yellow arrows and callouts guide the user through the steps:

1. Type your name (points to the 'author' field)
2. Enter your comment (points to the text area)
3. Press “add” button (points to the 'add' button)

The interface also shows a sidebar with various queues and a top navigation bar with tabs for overview, photometry, and comments. The object information section displays details such as identity (Gaia14adj), object info (ra & dec: 23:46:53.17 +23:08:58.7), predicted type (unknown), pre-disc non-detection (unknown), discovery date (22 days ago), and lightcurve data (lastest magnitude: 18.91 Gaia G-band).



# Add a New Object to the Marshall Inbox

Normally the Alerts are automatically added by the marshall surveying the catalogues, but it is also possible to add manually a new Alert by clicking “create new ticket”.

The screenshot displays the Marshall Inbox interface. On the left sidebar, the 'create new ticket' button is highlighted with a yellow circle and a yellow arrow. The main content area shows two object entries, Gaia14adi and Gaia14adj, each with a 'no stamp' placeholder image. The interface includes a top navigation bar with 'overview', 'photometry', and 'comments' tabs. A search bar at the top right allows searching by object or pi. The object details for Gaia14adi and Gaia14adj are shown below, including their RA & Dec coordinates, predicted type (unknown), pre-disc non-detection status (unknown), discovery date, and date added to Marshall. The lightcurve section for each object shows a plot of magnitude versus time, with the latest magnitude displayed as 18.77 for Gaia14adi and 18.91 for Gaia14adj. The actions section for each object includes a menu icon and a refresh icon.

**create new ticket**

manually create a ticket for a new object

Alert not enough data to determine a current magnitude

**Gaia14adi**

no stamp

gaia id: 14451

object info

ra & dec: 11:13:54.81 -23:00:43.9 [ 168.47841 -23.01221 ]

predicted type: unknown

pre-disc non-detection: unknown

discovery date: 33 days ago (2014-11-07)

date added to marshall: 6 days ago (2014-12-04)

host info

not in sdss footprint

lightcurve

latest magnitude: 18.77 Gaia G-band 2014-11-07+33d

actions

**Gaia14adj**

no stamp

gaia id: 14452

object info

ra & dec: 23:46:53.17 +23:08:58.7 [ 356.72155 23.14965 ]

predicted type: unknown

pre-disc non-detection: unknown

discovery date: 22 days ago (2014-11-17)

date added to marshall: 6 days ago

host info

exact sdss location  
sdss nearest object

lightcurve

latest magnitude: 18.91 Gaia G-band 2014-11-17+22d

actions

# Add a New Object to the Marshall Inbox

A form will be displayed containing several input fields to fill in. Once created, the Alert will be added to the “inbox”.

The screenshot displays the Marshall Inbox web application. A modal form titled "Add a new object to the Marshall inbox" is open, showing the following input fields:

- Object Name
- survey (dropdown menu)
- image (url to object image)
- ra (e.g. 10:20:30.23 or 155.125958333)
- dec (e.g. -15:10:43.453 or -15.1787369444)
- magnitude (dropdown menu)
- redshift (dropdown menu)
- discovery date (date or mjd, e.g. 2013-12-01 or 56627.5)
- created by

At the bottom of the form are "create" and "cancel" buttons. The background interface shows a sidebar with navigation options like "create new ticket", "TARGET SELECTION QUEUES", "OBSERVATION QUEUES", "CLASSIFICATION & ATEL QUEUES", and "REFERENCE". The main content area shows a list of objects, with the first one being "Gaia14adi" and the second "Gaia14adj".

- object name
- survey
- image
- ra
- dec
- magnitude
- redshift
- discovery date
- created by

# Spectral Classification

If the classification information is already available, it can be added to the Alert ticket by clicking the button “add spectral classification”.

The screenshot displays the Marshall Alert web interface. On the left is a sidebar with navigation links: 'create new ticket', 'TARGET SELECTION QUEUES' (Inbox (75), review for followup (3)), 'OBSERVATION QUEUES' (classification targets (1), + followup targets (1), = all targets (2)), 'CLASSIFICATION & ATEL QUEUES' (queued for classification (1), queued for atel (1)), and 'REFERENCE' (classified (6), followup complete (1), all archived (2), external source inbox (5347)).

The main content area shows two object detail panels, each with tabs for 'overview', 'photometry', and 'comments'. Both panels display an alert message: 'Alert not enough data to determine a current magnitude'.

**Object 1: Gaia14adi**

- Identity:** Gaia14adi, gaia id: 14451
- object info:** ra & dec: 11:13:54.81 -23:00:43.9 [168.47841 -23.01221], predicted type: unknown, pre-disc non-detection: unknown, discovery date: 33 days ago (2014-11-07), date added to marshall: 6 days ago (2014-12-04)
- host info:** not in sdss footprint
- lightcurve:** latest magnitude: 18.77 Gaia G-band 2014-11-07+33d
- actions:** Includes a button 'add a spectral classification for this object' highlighted by a yellow arrow.

**Object 2: Gaia14adj**

- Identity:** Gaia14adj, gaia id: 14452
- object info:** ra & dec: 23:46:53.17 +23:08:58.7 [356.72155 23.14965], predicted type: unknown, pre-disc non-detection: unknown, discovery date: 22 days ago (2014-11-17), date added to marshall: 6 days ago
- host info:** exact sdss location, sdss nearest object
- lightcurve:** latest magnitude: 18.91 Gaia G-band 2014-11-17+22d
- actions:** Includes a button 'add a spectral classification for this object'.



# Spectral Classification

A form will be displayed containing several input fields to fill in. Ticking “send to atel queue?” will move the object to the “queued for atel” inbox. Once clicked “classify”, the Alert will be moved to “classified” and “review to followup”.

The screenshot shows the Spectral Classification form in the ATLAS system. The form is a modal window with the following fields:

- source: gaia
- classification date: 2014-12-10 (YYYY-MM-DD or mjd)
- object type: supernova
- sn classification: Ia (peculiar checkbox is unchecked)
- redshift: (empty)
- classification phase: unknown
- days from max: ? (unknown)
- send to atel queue: ☒ yes (circled in yellow with a yellow arrow pointing to it)
- no
- cancel (red button)
- classify (blue button)

The background shows the ATLAS interface with a sidebar on the left containing sections like TARGET SELECTION QUEUES, OBSERVATION QUEUES, CLASSIFICATION & ATEL QUEUES, and REFERENCE. The main panel shows the object details for Gaia14adi, including its identity, photometry, and comments tabs. A yellow box highlights the 'send to atel queue?' option, with a yellow arrow pointing to it from the text '★ send to atel queue?' in the bottom right corner.

- source origin
- classification date
- object type
- sn classification
- redshift
- classification phase
- days from max

★ send to atel queue?

# Searching Capabilities

There is search box in the upper part of the Marshall which allow to search by object or PI name. It is possible to identify in the result set where the Alert is located by checking the icon at the left of the source name.

The screenshot displays the Marshall web interface. At the top right, a search box labeled "search by object or pi" is highlighted with a yellow circle and a yellow arrow. On the left sidebar, the "REFERENCE" section is expanded, showing "classified (7)" and "followup complete (2)", with the latter highlighted by a yellow circle and a yellow arrow. The main content area shows the details for object "Gaia14ade", which is also highlighted by a yellow circle. A yellow arrow points from this circle to a text box at the bottom. The object details include:

- identity:** Gaia14ade (with a green checkmark icon)
- object info:** ra & dec: 23:50:52.01 +28:58:59.4 [ 357.71672 28.98319 ]; predicted type: unknown; pre-disc non-detection: unknown; discovery date: 30 days ago (2014-11-11); date added to marshall: 22 days ago (2014-11-19)
- spectral classification:** classification: CV; classification survey: gaia; classification date: 2014-12-11 (+3hr); classification phase: unknown
- host info:** exact sdss location; sdss nearest object
- lightcurve:** latest magnitude: 17.78 Gaia G-band 2014-11-19+30d
- actions:** buttons for "PI" and "download"

The text box at the bottom states: "The icon preceding the object name will tell you in which inbox is located".

# Status and Actions

## TARGET SELECTION QUEUES >> *Inbox*

There are three possible actions from Inbox: *classification targets*, *archive* and *classify*.

The screenshot displays the Marshall web interface, which is used for managing astronomical targets. The interface is divided into several sections:

- Left Sidebar (Target Selection Queues):** This section lists various queues and their counts. A yellow arrow points to the 'Inbox (75)' queue. A green box highlights 'classification targets (1)'. A red box highlights 'all archived (2)'. Other queues include 'review for followup (3)', 'OBSERVATION QUEUES', 'CLASSIFICATION & ATEL QUEUES', and 'REFERENCE'.
- Top Bar:** The user 'marshall' is logged in. A search bar is available for searching by object or pi. Navigation icons and a 'date added to marshall' filter are also present.
- Object Details (Gaia14adi):** The main panel shows the details for object Gaia14adi. It includes a 'no stamp' placeholder, object info (ra & dec, predicted type: unknown, discovery date: 34 days ago), host info (not in sdss footprint), and a lightcurve plot. The 'actions' menu is highlighted with a yellow circle and a yellow arrow, showing options for 'classification targets', 'archive', and a 'classify' button.
- Object Details (Gaia14adj):** The bottom panel shows the details for object Gaia14adj. It includes a 'no stamp' placeholder, object info (ra & dec, predicted type: unknown, discovery date: 23 days ago), host info (exact sdss location), and a lightcurve plot.

# Status and Actions

## TARGET SELECTION QUEUES >> *Review to Followup*

There are two possible actions from *Review to Followup*: *followup targets* and *archive*.

The screenshot displays the Marshall web interface, which is used for managing astronomical targets. The interface is divided into several sections:

- Left Sidebar:** Contains navigation links and status counts.
  - create new ticket** (red button)
  - TARGET SELECTION QUEUES**
    - review for followup (3)** (highlighted with a yellow box and a yellow arrow pointing to the main content area)
  - OBSERVATION QUEUES**
    - + followup targets (1)** (highlighted with a green box and a green arrow pointing to the main content area)
  - CLASSIFICATION & ATEL QUEUES**
    - all archived (2)** (highlighted with a red box and a red arrow pointing to the main content area)
  - REFERENCE**
    - all archived (2)** (highlighted with a red box and a red arrow pointing to the main content area)
- Main Content Area:** Displays details for two objects, **Gaia14add** and **Gaia14acg**.
  - Gaia14add:** Shows a "no stamp" placeholder, object info (ra & dec, predicted type: unknown, discovery date: 30 days ago), spectral classification (classification: la, classification survey: gaia, classification date: 2014-12-03), host info, lightcurve, and actions (followup targets, archive). A yellow circle highlights the actions menu, with a yellow arrow pointing to it from the right.
  - Gaia14acg:** Shows a "no stamp" placeholder, object info (ra & dec, predicted type: unknown, abs peak mag: -17.86), spectral classification (classification: la, classification survey: atel, classification date: 2014-10-29), host info, lightcurve, and actions (PI).



# Status and Actions

## OBSERVATION QUEUES >> *Classification Targets*

There are four possible actions from *classification targets*: *inbox*, *observed*, *archive* and *classify*.

The screenshot displays the Gaia4Mdf web interface, which is used for managing astronomical targets. The interface is divided into several sections:

- Left Sidebar:** Contains navigation links for different target queues and reference data.
  - TARGET SELECTION QUEUES:** Includes 'inbox (75)' and 'review for followup (3)'.
  - OBSERVATION QUEUES:** Includes 'classification targets (1)', '+ followup targets (1)', and '= all targets (2)'. This section is highlighted with a yellow arrow.
  - CLASSIFICATION & ATEL QUEUES:** Includes 'queued for classification (0)' and 'queued for atel (1)'.
  - REFERENCE:** Includes 'classified (7)', 'followup complete (2)', and 'all archived (2)'. This section is highlighted with a red arrow.
- Main Content Area:** Displays detailed information for a specific target, identified as 'Gaia4Mdf' with 'gala id: 11829'.
  - Identity:** Shows the target name and ID.
  - object info:** Provides coordinates (ra & dec), predicted type (unknown), pre-disc non-detection (unknown), discovery date (29 days ago), and date added to Marshall (22 days ago).
  - host info:** Includes a visual representation of the target and links to 'exact sdss location' and 'sdss nearest object'.
  - lightcurve:** Shows a plot of the target's brightness over time, with the latest magnitude noted as 18.08.
  - actions:** A dropdown menu with options: 'inbox', 'observed', 'archive', and a 'refresh' icon. This section is circled in yellow and highlighted with a yellow arrow labeled 'actions'.
- Top Bar:** Includes a search bar, user profile, and navigation icons.

# Status and Actions

## OBSERVATION QUEUES >> *Followup Targets*

Only one possible action from *followup targets*: *followup complete*.

The screenshot displays the Marshall web interface. On the left sidebar, under 'OBSERVATION QUEUES', the '+ followup targets (1)' option is highlighted with a yellow box. Below it, under 'REFERENCE', the 'followup complete (2)' option is highlighted with a green box. A green arrow points from this option to the 'actions' menu in the main panel. The main panel shows the details for object 'Gaia14adc'. The 'actions' menu is circled in yellow, and the 'followup complete' option is highlighted with a green box. A yellow arrow points to this option with the label 'actions'. The interface also includes a top navigation bar with a search bar and a bottom status bar with various filters and pagination controls.

marshall search by object or pi

date added to marshall x 10

overview photometry comments

Alert not enough data to determine a current magnitude

Identity Gaia14adc

object info

ra & dec: 21:04:16.62 +51:19:38.3 [ 316.06927 51.32732 ]

predicted type: unknown

pre-disc non-detection: unknown

discovery date: 35 days ago (2014-11-06)

date added to marshall: 22 days ago (2014-11-19)

PI: no pi set

gaia id: 11826

spectral classification

classification: CV

classification survey: private comm.

classification date: 2014-12-02 (9 days ago)

classification phase: unknown

host info

not in sdss footprint

lightcurve

latest magnitude: 15.92 Gaia G-band 2014-11-06-35d

actions

move object

followup complete

actions

create new ticket

TARGET SELECTION QUEUES

inbox (75)

review for followup (3)

OBSERVATION QUEUES

classification targets (1)

+ followup targets (1)

= all targets (2)

CLASSIFICATION & ATEL QUEUES

queued for classification (0)

queued for atel (1)

REFERENCE

classified (7)

followup complete (2)

all archived (2)

external source inbox (5347)

# Status and Actions

## CLASSIFICATION & ATEL QUEUES >> *Queued for Classification*

The possible actions from *Queued for Classification* are *classification targets* and *archive*.

The screenshot displays the Marshall interface for the object 'Gaia14adi'. The interface is divided into several sections:

- Left Sidebar:** Contains navigation links for 'create new ticket', 'TARGET SELECTION QUEUES' (inbox (74), review for followup (3)), 'OBSERVATION QUEUES' (classification targets (1), + followup targets (1), = all targets (2)), 'CLASSIFICATION & ATEL QUEUES' (queued for classification (1), queued for atel (1)), 'REFERENCE' (classified (7), followup complete (2), all archived (2)), and 'external source inbox (5347)'.
- Main Content Area:** Shows the object's details under the 'overview' tab. It includes an 'identity' section with the name 'Gaia14adi' and a 'no stamp' placeholder. The 'object info' section lists coordinates, predicted type (unknown), pre-disc non-detection (unknown), discovery date (34 days ago), and date added to Marshall (7 days ago). The 'host info' section shows 'not in adas footprint'. The 'lightcurve' section displays a plot and the latest magnitude (18.77 Gaia G-band). The 'actions' section is circled in yellow and contains a dropdown menu with 'classification targets' and 'archive' options, and a green circular icon.
- Annotations:** A yellow arrow points from the 'actions' section to the 'classification targets' and 'archive' options. A red arrow points from the 'all archived (2)' link in the sidebar to the 'archive' option in the actions menu.

# Status and Actions

## CLASSIFICATION & ATEL QUEUES >> *Queued for Atel*

Only one possible action from *Queued for Atel*: *followup targets*

The screenshot displays the Marshall web interface for the object **Gaia14adb**. The interface is divided into several sections:

- Left Sidebar:** Contains navigation links for 'create new ticket', 'TARGET SELECTION QUEUES' (Inbox (74), review for followup (3)), 'OBSERVATION QUEUES' (classification targets (1), + followup targets (1) - all targets (2)), 'CLASSIFICATION & ATEL QUEUES' (queued for classification (1), queued for atel (1)), and 'REFERENCE' (classified (7), followup complete (2), all archived (2), external source inbox (5347)).
- Top Bar:** Includes a search bar, a 'marshall' label, and a 'search by object or pi' button.
- Main Content Area:** Features tabs for 'overview', 'photometry', and 'comments'. The 'overview' tab is active, showing a detailed view of the object **Gaia14adb**. The object's details are organized into columns: 'identity' (Gaia14adb, no stamp), 'object info' (ra & dec: 12-05:12.03 +21:50:18.0, predicted type: unknown, abs peak mag: -14.57, pre-disc non-detection: unknown, discovery date: 43 days ago (2014-10-29), date added to marshall: 22 days ago (2014-11-19)), 'spectral classification' (classification: la, classification survey: pessto, classification date: 2014-12-02 (9 days ago), classification phase: unknown, redshift: 0.0100, distance: 43.16 Mpc), 'host info' (exact sdss location, sdss nearest object), 'lightcurve' (latest magnitude: 18.61 Gaia G-band 2014-10-29+43d), and 'actions' (move object to, followup targets).
- Bottom Bar:** Includes a 'date added to marshall' dropdown, a 'x 10' zoom control, and a '1' page indicator.

A yellow arrow points to the 'actions' menu in the top right, and a green arrow points to the 'followup targets' link in the sidebar.



# Status and Actions

REFERENCE >> *Classified*

Only one possible action from *Classified*: *followup targets*

The screenshot displays the Marshall web interface, which is used for managing astronomical objects. The interface is divided into a sidebar on the left and a main content area on the right.

**Sidebar:**

- create new ticket** (red button)
- TARGET SELECTION QUEUES**
  - inbox (74)
  - review for followup (3)
- OBSERVATION QUEUES**
  - classification targets (1)
  - + followup targets (1) (highlighted with a green box and a green arrow pointing to the 'followup targets' link in the sidebar)
  - all targets (2)
- CLASSIFICATION & ATEL QUEUES**
  - queued for classification (1)
  - queued for atel (1)
- REFERENCE**
  - classified (7) (highlighted with a yellow box and a yellow arrow pointing to the 'actions' menu in the top right of the main content area)
  - followup complete (2)
  - all archived (2)
  - external source inbox (5347)

**Main Content Area:**

The main content area shows details for two objects: **Gaia14adb** and **Gaia14adc**. Each object's details are presented in a grid of tabs: **identity**, **object info**, **spectral classification**, **host info**, **lightcurve**, and **actions**.

**Gaia14adb Details:**

- identity:** Gaia14adb, no stamp
- object info:** ra & dec: 12:05:12.03 +21:50:18.0 [181.30013 21.83836], predicted type: unknown, abs peak mag: -14.57, pre-disc non-detection: unknown, discovery date: 43 days ago (2014-10-29), date added to marshall: 22 days ago (2014-11-19), PI: no pi set, gala id: 11825
- spectral classification:** classification: la, classification survey: pessto, classification date: 2014-12-02 (9 days ago), classification phase: unknown, redshift: 0.0100, distance: 43.16 Mpc
- host info:** exact sdss location, sdss nearest object
- lightcurve:** latest magnitude: 18.61 Gaia G-band 2014-10-29+43d
- actions:** move object to (highlighted with a yellow circle and a yellow arrow pointing to the 'actions' menu in the top right of the main content area)

**Gaia14adc Details:**

- identity:** Gaia14adc, no stamp
- object info:** ra & dec: 21:04:16.62 +51:19:38.3 [316.06927 51.32732], predicted type: unknown, pre-disc non-detection: unknown, discovery date: 25 days ago, date added to marshall: 22 days ago (2014-11-19), PI: no pi set, gala id: 11825
- spectral classification:** classification: cv, classification survey: private comm., classification date: 2014-12-02 (9 days ago), classification phase: unknown, redshift: 0.0100, distance: 43.16 Mpc
- host info:** not in sdss footprint
- lightcurve:** latest magnitude: 18.61 Gaia G-band 2014-10-29+43d
- actions:** move object to (highlighted with a yellow circle and a yellow arrow pointing to the 'actions' menu in the top right of the main content area)

# Status and Actions

## REFERENCE >> *followup complete*

The only possible action from *followup complete* is to restart the followup selecting *followup targets*.

The screenshot displays the Marshall web interface, which is used for managing astronomical objects. The interface is divided into a left sidebar and a main content area.

**Left Sidebar:**

- create new ticket** (red button)
- TARGET SELECTION QUEUES**
  - inbox (74)
  - review for followup (3)
- OBSERVATION QUEUES**
  - classification targets (1)
  - + followup targets (1)** (highlighted with a green box)
  - = all targets (2)
- CLASSIFICATION & ATEL QUEUES**
  - queued for classification (1)
  - queued for atel (1)
- REFERENCE**
  - classified (7)
  - followup complete (2)** (highlighted with a yellow box)
  - all archived (2)
  - external source inbox (5347)

**Main Content Area:**

The main content area shows details for two objects: **Gaia14adb** and **Gaia14ade**. Each object's details are presented in a grid format with tabs for **overview**, **photometry**, and **comments**.

**Gaia14adb Details:**

- Identity:** Gaia14adb (with a green checkmark icon)
- object info:** ra & dec: 12:05:12.03 +21:50:18.0 [ 181.30013 21.83836 ]; predicted type: unknown; abs peak mag: -14.57; pre-disc non-detection: unknown; discovery date: 43 days ago (2014-10-29); date added to marshall: 22 days ago (2014-11-19); PI: no pi set; gala id: 11825
- spectral classification:** classification: la; classification survey: pessto; classification date: 2014-12-02 (9 days ago); classification phase: unknown; redshift: 0.0100; distance: 43.16 Mpc
- host info:** exact sdss location; sdss nearest object
- lightcurve:** latest magnitude: 18.61 Gaia G-band 2014-10-29+43d
- actions:** move object to...; **followup targets** (highlighted with a yellow circle and a green arrow pointing from the sidebar)

**Gaia14ade Details:**

- Identity:** Gaia14ade (with a green checkmark icon)
- object info:** ra & dec: 23:50:52.01 +28:58:59.4 [ 357.71672 28.98319 ]; predicted type: unknown
- spectral classification:** classification: CV; classification survey: gaia; classification date: 2014-12-11
- host info:** exact sdss location; sdss nearest object
- lightcurve:** latest magnitude: 18.61 Gaia G-band 2014-10-29+43d
- actions:** move object to...; **followup targets** (highlighted with a yellow circle and a green arrow pointing from the sidebar)

**Annotations:**

- A green arrow points from the **+ followup targets (1)** link in the sidebar to the **followup targets** button in the actions menu of the Gaia14adb object details.
- A yellow arrow points from the **followup complete (2)** link in the sidebar to the **followup targets** button in the actions menu of the Gaia14ade object details.

# Status and Actions

REFERENCE >> *all archived*

The possible actions from *all archived*: *Inbox* and *Classify*

The screenshot displays the Marshall web interface, which is used for managing astronomical objects. The interface is divided into several sections:

- Top Navigation Bar:** Includes a search bar labeled "search by object or pi" and a user profile icon.
- Left Sidebar:** Contains a "create new ticket" button and several queues:
  - TARGET SELECTION QUEUES:** Includes "inbox (74)" and "review for followup (3)".
  - OBSERVATION QUEUES:** Includes "classification targets (1)" and "followup targets (1)".
  - CLASSIFICATION & ATEL QUEUES:** Includes "queued for classification (1)" and "queued for atel (1)".
  - REFERENCE:** Includes "classified (7)" and "followup complete (2)".
  - all archived (2):** Highlighted with a yellow box.
  - external source inbox (5347):** Located at the bottom of the sidebar.
- Main Content Area:** Displays details for two objects: **Gaia14adh** and **Gaia14act**. Each object's page has tabs for "overview", "photometry", and "comments".
  - Gaia14adh Overview:** Shows a "no stamp" placeholder, object coordinates (11:14:46.64 -13:53:12.9), predicted type (unknown), pre-disc non-detection (unknown), discovery date (36 days ago), and date added to Marshall (14 days ago). It also includes a lightcurve plot and a "move object to another list" button.
  - Gaia14act Overview:** Shows a "no stamp" placeholder, object coordinates (12:20:22.50 +28:24:51.6), predicted type (unknown), absolute peak magnitude (-16.93), and classification date (2014-10-30). It also includes a lightcurve plot and a "move object to another list" button.
- Actions:** A yellow arrow points to the "actions" menu in the top right of the main content area, which includes options like "inbox" and "refresh".